

pt#5/B

IN THE SPECIFICATION

Applicants respectfully request entry of the substitute paper copy and computer-readable copy of the Sequence Listing filed herewith for the instant application. Please insert the paper copy of the Sequence Listing following the Abstract on page 58 and before the Drawings. Insert the Sequence Listing beginning with page 1 and numbering consecutively thereafter.

Please amend the specification as follows:

- ✓ At page 33, line 5, after "gtgccacttg acttgggact" please insert --(SEQ ID NO:1)--.
- ✓ At page 33, line 6, after "atctctccaa gcagaccag caagc" please insert --(SEQ ID NO:2)--.
- ✓ At page 33, line 7, after "taccttgaa ttaagcactt cacag" please insert --(SEQ ID NO:3) --.
- ✓ At page 33, line 8, after "tcctgaacct gctctgtgaa gtgc" please insert --(SEQ ID NO:4) --.
- ✓ At page 33, line 9, after "ctagagccaa acccacatct cctt" please insert --(SEQ ID NO:5) --.
- ✓ At page 33, line 10, after "ttattggcta cttggtgcc" please insert --(SEQ ID NO:6) --.
- ✓ At page 33, line 11, after "tcctggctct ccctctct" please insert --(SEQ ID NO:7) --.
- ✓ At page 33, line 12, after "aggtccctcc tccagcac" please insert --(SEQ ID NO:8) --.
- ✓ At page 33, line 13, after "cccaggtccc tcctccagc ac" please insert --(SEQ ID NO:9) --.
- ✓ At page 33, line 14, after "gggagatttt ttcagccag" please insert --(SEQ ID NO:10)--.
- ✓ At page 33, line 15, after "agaccttgg agcaggagtg" please insert --(SEQ ID NO:11) --.
- ✓ At page 33, line 16, after "agcagggagg atgttacag" please insert --(SEQ ID NO:12) --.
- ✓ At page 33, line 17, after "aggggtgggt agggaatatg" please insert --(SEQ ID NO:13) --.

- ✓ At page 33, line 18, after "gcttgaaata gaagggaat gggagg" please insert
--(SEQ ID NO:14) --.
- ✓ At page 33, line 19, after "tggaagaac ctggaccttg acttt" please insert
--(SEQ ID NO:15) --.
- ✓ At page 33, line 20, after "ccaggttgtt aagcattgct gtacc" please insert
--(SEQ ID NO:16) --.
- ✓ At page 33, line 21, after "atagagaggc cagcacia" please insert
--(SEQ ID NO:17) --.
- ✓ At page 33, line 22, after "tgtaactatg aggagtcag" please insert
--(SEQ ID NO:18) --.
- ✓ At page 33, line 23, after "agaagatggg ggaatctttt tcct" please insert
--(SEQ ID NO:19) --.
- ✓ At page 33, line 24, after "attagccggg cacggtggca" please insert
--(SEQ ID NO:20) --.
- ✓ At page 33, line 25, after "actctaatt cataccacc" please insert
--(SEQ ID NO:21) --.
- ✓ At page 33, line 26, after "aaaggatgca ggaggaatgt aggc" please insert
--(SEQ ID NO:22) --.
- ✓ At page 33, line 27, after "tgatgacat cctcaggt" please insert
--(SEQ ID NO:23) --.
- ✓ At page 33, line 28, after "tctcagctca ctgcaacctc" please insert
--(SEQ ID NO:24) --.
- ✓ At page 33, line 29, after "catccccctt tgggtggc" please insert
--(SEQ ID NO:25) --.
- ✓ At page 33, line 30, after "accagcaag ctgaagttgt agcc" please insert
--(SEQ ID NO:26) --.
- ✓ At page 33, line 31, after "cctttttgtc cctgatgacc" please insert
--(SEQ ID NO:27) --.
- ✓ At page 33, line 32, after "tatccatgag gtgctgggaa c" please insert
--(SEQ ID NO:28) --.

✓ At page 33, line 33, after "aaggtagggg ctggacag" please insert
--(SEQ ID NO:29) --.

✓ At page 33, line 34, after "aaaaatcctg tgctccaaac" please insert
-- (SEQ ID NO:30) --.

✓ At page 33, line 35, after "gagattaaaa atcctgtgct cca" please insert
-- (SEQ ID NO:31) --.

✓ At page 33, line 36, after "caagagatca agccaaaatc agt" please insert
-- (SEQ ID NO:32) --.

✓ At page 33, line 37, after "cacccgcatg tcagactatt tggc" please insert
-- (SEQ ID NO:33) --.

✓ At page 33, line 38, after "caaaaaccca ttctcccg" please insert
-- (SEQ ID NO:34) --.

✓ At page 33, line 39, after "tgtattccag gcagaaggc" please insert
-- (SEQ ID NO:35) --.

✓ At page 33, line 40, after "gcacagagac ggacacag" please insert
-- (SEQ ID NO:36) --.

✓ At page 33, line 41, after "acgtacaaat gcaggcaac" please insert
-- (SEQ ID NO:37) --.

✓ At page 33, line 42, after "tgttgagag aggggtgatg" please insert
-- (SEQ ID NO:38) --.

✓ At page 33, line 43, after "cagtctgttg ttaccagat g" please insert
-- (SEQ ID NO:39) --.

✓ At page 33, line 44, after "agcttactgg atgaccacca" please insert
-- (SEQ ID NO:40) --.

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At page 3/5, line 38, after "TAA" please insert
-- (SEQ ID NO:41) --.

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At page 4/5, line 33, after "aatccttaca" please insert -- (SEQ ID NO:42) --.

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At page 4/5, line 39, after "G-----" please insert
-- (SEQ ID NO:43) --.